ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

PROJ. NO. PROJECT NAME 02AH63 Cheshire Monitoring study				NO.			//	Activity Code: 12345			
SAMPLERS: (Print Name and Sign) Mike Murphy Mike Morah Mike Morah STA. NO. DATE TIME M A STATION LOCATION P B				OF	a l y	t ^e //		// AIR 0209001			
STA. NO.	DATE	TIME	COMP	G R A B	STATIO	ON LOCATION	CON- TAINERS	A ⁿ /			TAG NUMBERS
D01	8/12				GHS		1				5-340278 1 to 1
S02	8/12	00:00	X		RVHS		1				5-340279 1 to 1
S03	8/12	00:00	X		ADDAVILLE		1				5-340280 1 to 1
SO1	8/12	00:00	X		GHS		1				5-340277 1 to 1
											GHS # 3017 Psig Aug = 20.45
											GHS # 3017, Psig Aug = 20 45
											RVHS, Psig Aug = 21.1
											Addeville Pstg Aug = 2018
Relinquish M.J. M.u. Relinquish	245/			08	Date / Time	William	nature)	A		*	Ship To:
							ATTN:				
Relinquished by: (Signature) Date / Time Received for Laborato (Signature)			ory by:	Da	ate / Time		Airbill Number UPS # 12 401 19901 4020 6039				
		_	-			Thislim,	5-140069	9/15/	02/10:	Bin	Chain of Custody Seal Numbers

Project No.	Project Nai	me AIR 020	10.10	n name GI	13/10	
02AH63	HRRIU	me DATE: 11	3/ shell for	DUBINATES (1	2412002	
Sampler				8		
Mike Murphy Cooler ID	00.41.160.4	Page 5-1400	<u></u>		35 45 45 45 45 45 45 45 45 45 45 45 45 45	
- Mill Mill Allange	02AH631			Station Location	No Bottles	Tag Numbers
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	NO Bottles	rag Numbers
02AH63D01	D01	12/08/2002 00:00:00	○ Grab Com	GHS	1	5-340278 1 to 1
Bottle	No. 1	Parameter				
		PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH63S02	S02	12/08/2002 00:00:00	Grab Com	RVHS	1	5-340279 1 to 1
Bottle	No. 1	Parameter				
		PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH63S03	S03	12/08/2002 00:00:00	◯ Grab Com	ADDAVILLE	1	5-340280 1 to 1
Bottle	No. 1	Parameter				
2 3 11. 3		PM10				
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH63SO1	SO1	12/08/2002 00:00:00	○ Grab Com	GHS	1	5-340277 1 to 1
Bottle	No. 1	Parameter		7		
201110		PM10				

CENTRAL REGIONAL LABORATORY Data Checklist

Data Set AIR 0209001 Cheshire Monetoning

- Chain of Custody
- Reported in LIMS
- Transmittal Report w/signatures of the following:
 - Analyst(s)
 - Environmental Data Coordinator

Prepared by: Syluia Sriffin 10-22-02
Environmental Data Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

OCT 2 2 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL data set number: 0209001

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH63D01, 2002AH63S01, 2002AH63S02,

and 2002AH63S03.

OCT	2	2	2002
	,		,

Data Management Coordinator and Date Received	
Date Transmitted:/	
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey attached, or call the CRL Sample Coordinator at 3-1226.	у,
Please sign and date this form below and return it with any comments to:	
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C	1=
Received by and Date	
Comments:	

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
М	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method Detection Limit (MDL)</u> but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flags</u> .
U	This flag in used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.



Environmental Protection Agency Region 5 Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605

WORK ORDER

Phone:(312)353-8370

Printed: 10/17/02 12:06:49PM

0209001

US EPA Region 5 Central Regional Laboratory

Client: Air Division, US EPA Region 5

Project: Gavin, Cheshire. Ohio

Project Manager:

Fax:(312)886-2591

Marilyn Jupp

Project Number:

[none]

Report To:

Kathy Triantafillou Air Division, US EPA Region 5 77 West Jackson Boulevard Chicago, IL 60605

Phone: (312) 353-4775

Fax: (312) 353-2001

Date Due:

Sep-26-02 15:00 (21 day TAT)

Received By: Logged In By: William Sargent

Date Received:

Sep-05-02 10:33

William Sargent

Date Logged In:

Sep-05-02 10:34

Samples Received at: All containers intact:

٥C No Starts 8-3-01 Ends 8-3-02

Sample labels/COC agree:

No

Samples Preserved Properly:

No

Custody Seals Present: No

Due

TAT

Expires

Comments

0209001-01 2002AH63D01-GHS#3013, PSTG AVG=20.45 [Air Filter] Sampled Aug-12-02 00:00 Central

PM10

Analysis

Sep-26-02 12:00

21

Aug-12-03 00:00

0209001-02 2002AH63S01-GHS#3012,PSTG AVG=20.9 [Air Filter] Sampled

Aug-12-02 00:00 Central

PM10

Sep-26-02 12:00

21

Aug-12-03 00:00

0209001-03 2002AH63S02-RVHS,PSTG AVG=21.1 [Air Filter] Sampled

Aug-12-02 00:00 Central

PM10

Sep-26-02 12:00

21

Aug-12-03 00:00

0209001-04 2002AH63S03-ADDAVILLE, PSTG AVG=20.8 [Air Filter] Sampled

Aug-12-02 00:00 Central

PM10

Sep-26-02 12:00

21

Aug-12-03 00:00

ENVIRONMENTAL PROTECTION AGENCY **REGION V** CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 08/12/2002 LAB ARRIVAL DATE: 09/05/2002 DUE DATE: 09/26/2002 DU NUMBER: 90101A WORK ORDER NUMBER: 0209001 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH63D01	GUIDING HANDS SCHOOL	0.0610			
2	2002AH63S01	GUIDING HANDS SCHOOL	0.0469			
3	2002AH63S02	RVHS	0.0559	7.00 S. C.		
4	2002AH63S03	ADDAVILLE	0.0498		*	to the second
DATE O	F ANALYSIS		10/15-17/2002			
AN	ALYST		FAR			

	A	to at a co
leviewed <u>by:</u>	<u>N.</u>	Date: 10 / 21 / 2002_

Data Set Number:	<u> 0209001</u>	Paran	neter:	Susper	nded Particles
Facility Name:	CHESHIRE MONITOR.	ING STUDY_			
Study Name:	_CHESHIRE MONITOR.	ING STUDY		-	
Date of Narrative:	<u>10/18/2002</u>	Analyst:	<u>FAA</u>		
Prepared by:	<u> </u>	Signature:	F	86	4:

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 05, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6597480	2002AH63D01	5-340278-1
Q6597479	2002AH63S01	5-340277-1
Q6597493	2002AH63S02	5-340279-1
Q6597489	2002AH63S03	5-340280-1

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 10/15/2002 and was completed on 10/17/2002. All exposed filters were in good conditions. No sampler serial numbers were provided by the field for filter Q6597493 (CRL Sample I.D 2002AH63S02) and Q6597489 (CRL Sample I.D 2002AH63S03).

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

ENVIRONMENTAL PROTECTION AGENCY **REGION V** CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 08/12/2002 LAB ARRIVAL DATE: 09/05/2002 DUE DATE: 09/26/2002

DU NUMBER: 90101A WORK ORDER NUMBER: 0209001 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		Ξ
1	2002AH63D01	GUIDING HANDS SCHOOL	0.0610		
2	2002AH63S01	GUIDING HANDS SCHOOL	0.0469		
3	2002AH63S02	RVHS	0.0559	**************************************	
4	2002АН63S03	ADDAVILLE	0.0498	 777	
DATE O	F ANALYSIS		10/15-17/2002		
AN	ALYST		FATO		

Reviewed by:	A1.	Date: 10/21/2602
<u> </u>	L	Dater y 1 pc 1 p

Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and Ino	Pageof	

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

		- 222018			
Batch Number: _ O A	209001	Facility:	CHESHIRE	MONITORING	STUDIES
Darameter Silson	ENDEN PARTICIES	CDI SOD	1416017	,	

Package Overview:	YES	NO
Raw Data Package Complete?	V	
Results Reported Correctly?	V	
Special Requests Done?	W/A	
Calculations Checked?	V	
Calibration Not Exceeded?	W/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	NIA	
Quality Control:		
Holding Times Met?	V	
Preservation Checked?	NIA	
Proper Digestion Verified?	NIA	
Initial Instrument Performance Checks Verified?	Loro	
Calibration Verification Checked?	NIA	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	NA	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?	V	
Narrative Complete?	1	

Narrative Complete?		
Analyst: FAA	Peer Reviewer: M.	
Date: 10 /18/02	Date:	
	Comments Attached? (Y/N)	

Data Set Number:	<u>0209001</u>	Paramet	er: Suspended Particles
Facility Name:	<u>CHESHIRE MONITORI</u>	NG STUDY	1 1 = 10 to
Study Name:	<u>CHESHIRE MONITORI</u>	NG STUDY	
Date of Narrative:	<u>10/18/2002</u>	Analyst:	F <u>AA</u>
Prepared by:	<u>FAH</u>	Signature: _	FAV

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 05, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

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Q6597493	2002AH63S02	5-340279-1
Q6597489	2002AH63S03	5-340280-1

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QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Work Ordert Numbers:

0208008, 0209001, 0209002, 0209015, 0209015, 0209016, 0209017,0209018, 0210005

Date of Analysis 8/16/2002

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
.0000	1.0000	0.0000	
.0000	2.0000	0.0000	
.0000	4.0000	0.0002	

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Sampling	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	जीरक प्रमाप्ते इत्य		
Q6597484	2002AH64S01	08/18/02	Analyst 1	4.4425
Q6597484	2002AH64S01	08/18/02	Analyst 2	4.4430
Differences (Limit +/	- 5 mg)			-0.0005
Q6597471	2002AH65S02	08/24/02	Analyst 1	4.4799
Q6597471	2002AH65S02	08/24/02	Analyst 2	4.4800
Differences (Limit +/	- 5 mg)			-0.0001

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID Number	CRL Sample I.D Number	Sampling		Sampler		P1/Pa		Pre Weight			PM10
		Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
					W. 2004.	1000000				22.00.00.00.00.00.00.00.00.00.00.00.00.0	
	lumber 0208008										
	2002AH62D01	08/06/02	Guiding Hands School	3012	16.10		0.00	4.3699	4.4610	0.0911	ERR
	2002AH62S01	08/06/02	Guiding Hands School	3013	16.30		0.00	4.3413	4.4385	0.0972	ERR
	2002AH62S02	08/06/02	RVHS		20.00		0.00	4.4009	4.4795	0.0786	ERR
Q6597481 2	2002AH62S03	08/06/02	Addaville	-	20.50		0.00	4.4009	4.4221	0.0212	ERR
Mark Order N	lumbar 00'00004										
	lumber 0209001 2002AH63D01	08/12/02	Guiding Hands School	3013	20.45		0.00	4.4166	4.4776	0.0610	ERR
	2002AH63S01	08/12/02	Guiding Hands School	3012	20.90		0.00	4.4190	4.4659	0.0469	ERR
		08/12/02	RVHS	3012	21.10		0.00	4.4035	4.4594	0.0559	ERR
	2002AH63S02		Addaville		20.80		0.00	4.4134	4.4632	0.0333	ERR
Q6597489 2	2002AH63S03	08/12/02	Addaville	-	20.60		0.00	4.4134	4.4032	0.0490	LIM
Work Order N	lumber 0209002										
	2002AH64D01	08/18/02	Guiding Hands School	3013	20.95		0.00	4.4444	4.4624	0.0180	ERR
	2002AH64S01	08/18/02	Guiding Hands School	3012	20.85		0.00	4.4140	4.4425	0.0285	ERR
	2002AH64S02	08/18/02	RVHS	-	21.05		0.00	4.3839	4.3995	0.0156	ERR
	2002AH64S03	08/18/02	Addaville	-	18.85		0.00	4.4050	4.4266	0.0216	ERR
	lumber 0209015										
	2002AH65D01	08/24/02	Guiding Hands School	3012	20.20		0.00	4.4080	4.4662	0.0582	ERR
	2002AH65S01	08/24/02	Guiding Hands School	3013	20.05		0.00	4.3813	4.4362	0.0549	ERR
	2002AH65S02	08/24/02	RVHS	-/	20.10		0.00	4.4290	4.4850	0.0560	ERR
Q6597471 2	2002AH65S03	08/24/02	Addaville	-	20.50		0.00	4.4502	4.4799	0.0297	ERR
Mork Order N	lumber 0209016										
	2002AH66D01	08/30/02	Guiding Hands School	3012	20.30		0.00	4.4264	4.4412	0.0148	ERR
	2002AH66S01	08/30/02	Guiding Hands School	3012	20.90		0.00	4.4152	4.4529	0.0377	ERR
Q6597494 2	2002AH00301	00/30/02	Guiding Hands School	3013	20.50		0.00	7.4132	4.4020	0.0077	Litt
Work Order N	lumber 0209017										
Q6597467 2	2002AH67D01	09/05/02	Guiding Hands School	3012	21.35		0.00	4.4111	4.4445	0.0334	ERR
Q6597466 2	2002AH67S01	09/05/02	Guiding Hands School	3013	20.75		0.00	4.4130	4.4383	0.0253	ERR
Q6597464 2	2002AH67S02	09/05/02	RVHS	-	21.15		0.00	4.4320	4.4724	0.0404	ERR
	2002AH67S03	09/05/02	Addaville		21.10		0.00	4.4245	4.4566	0.0321	ERR
W 10 1 N											
	lumber 0209018	09/23/02	Cuiding Handa Cabaal	3012	21.05		0.00	4.4275	4.4432	0.0157	ERR
	2002AH70S01		Guiding Hands School					4.4275	4.4432	0.0137	ERR
Q6597460 2	2002AH70S03	09/23/02	Addaville	- *	20.40		0.00	4.4310	4.4343	0.0233	ENK
Work Order N	lumber 0210005										
	2002AH71D01	09/29/02	Guiding Hands School	3012	21.35		0.00	4.4549	4.4918	0.0369	ERR
	2002AH71S01	09/29/02	Guiding Hands School	3013	20.50		0.00	4.4837	4.5210	0.0373	ERR
	2002AH71S02	09/29/02	RVHS	-	20.55		0.00	4.4527	4.4868	0.0341	ERR
	2002AH71S03	09/29/02	Addaville	-	20.35		0.00	4.4566	4.4889	0.0323	ERR

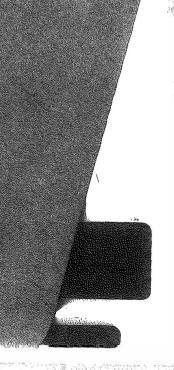
0209001 Page 1051

TS	Filt.	TARE	DUP	Exposed	Exposed	comments
	エり、	wt (g)	wt (g)	wt (g)	wt Dup (g)	
	06597495	4.4440				Standard Standard
	N6597468	4-4-47/201				and the second second second second
	8 6591469	4.4357		4.4869		
erat	06598470	4,4143		4.4664	4,4664 AD	
U-741	036597471	4.48502	4.4506	4.4799	4,4800 M	
	06597472	4.4558	MANUFACTOR AND THE STATE OF THE	4.5082	to constitute and the signer construction of the signer of the	
	86597473	4.4380	Minimum to a process to a power particular and a construction	4.4731	ANTINET MINISTER PROPERTY OF THE SECTION OF THE SECTION OF	mantan yang a ang dang Alpanah ji naga i jang katanah a ji naga i ing a man
1.1 Section	96597474	4,44511	telloge Hiller Wes land have been a suppressible from the	4.4803	printed to see a see a second of the second	
	965974793	4.4035	4.4040	4.4594	Districtive of the same of the same of	
	96597476	4.4355	1. ^	4.4760	and a montput to the local to the theoretical desired by	and the control of th
******	9 65 974 77	4.4380	Magazin - A - 1 - 1 - Barrier - Abertumbar - 1 - 1 - 1 - 1	4.4822	Newscapes of the control of the cont	
F.11-	96597478	4.4059		4.4435		
	06597479	4.4190		4.4659		
1	06597480	4,194166		4.4776		
	06597481	4.4009	a a a a a a a a a a a a a a a a a a a	4.4221	n sta line e it	
	06597482 40	4.4009	X = 1 /	4.4795		
	965974894	4.4152		4.4529	A1	
	06597484	4.4140	y and the get arranged in the second	4.4425	4,4430 M.	- to a direct
f - serve	96597485	4.4080	v manazi na nje na manazi	4.4654	62 FAA 10/17/02	Smudge like dried wet spot
	06597481	4.3839	edicamin in the second	4.3995	a spanial and	
	0.6597487	4.4050	ece (see) e eeches	4.4266		toward toward in
	0.6597/88	4.4444		4.4624	NATION OF STREET	the middle
	U6597489	4.4134	4.4133	4.46832	10/17/02	- · · · · · · · · · · · · · · · · · · ·
	66597490	4.3813	redilization was been as a constitution of	4.4362		was windered in the
_{	6059749/	4.4264	man and a property	4.4412		early =
_	8897492	4.4290		4.4850	sovit so see N.e	sorodon on one side
	59496	4.4216				¥.

AIR 0209001

Parameters PM10

US EPA Region 5 Field Sample



IL POSITO INTERPRETATION VO. RECORDER RESP. 2245 SITE いたないこの AIDO 五五万のの MOTAL TROM 176577430

3. SAMPLE WI

MITAL WI

FINAL WT

(T)

COMMENTS

Preservative None Sample ID 02AH63SO1

AIR OZUMOUI

Parameters PM10

5-340277-1

US EPA Region 5 Field Sample

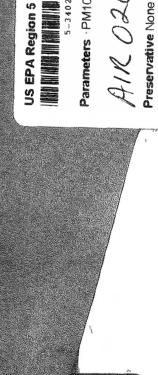


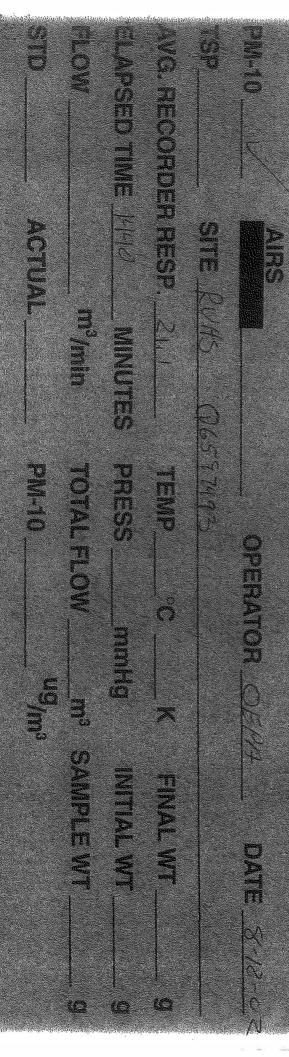
MAPSED TIME 14190 VG. RECORDEN RESP. 23 ACTUA WINJITE MOTHTUL PM-10 OPERATOR_ THE SAMPLE WI LM TVLLIM FINAL WIT

TO THE PROPERTY OF

5-340279-1					
Parameters PM10					
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US EPA Region 5 Field Sample





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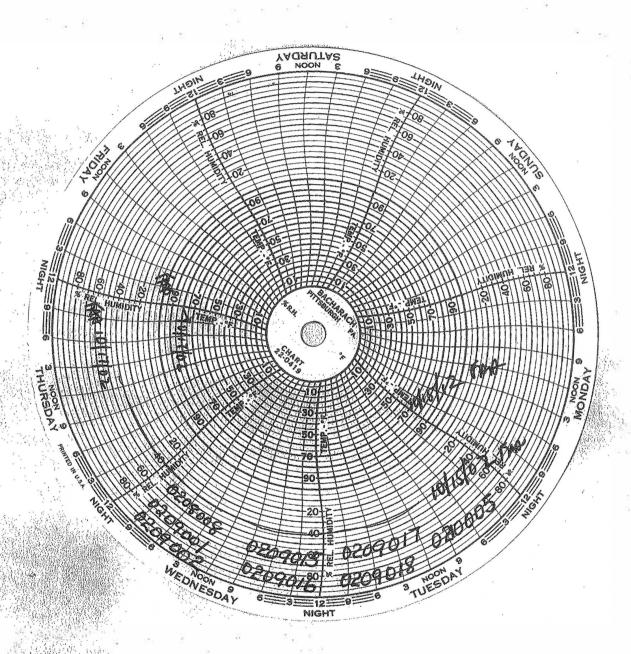
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